TITLE **SpM-1 & SpM-2 meeting report.**

PROJECTS SpM-1 & SpM-2

SOURCE: Rapporteur

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STATUS for inclusion in the TM6 meeting report

# SpM-1. DTS/TM-06044-1 Spectral Management

***(Revision of TR 101 830-1 Part 1: Definitions and Signal Library)***

The most recent version is V1.4.1, and was published by ETSI in march 2006. A work item to revise this document was opened during the sept 2006 meeting of TM6, mainly to add VDSL2 signal descriptions.

### *SpM-1.1 Work Plan*

The Rapporteur, Rob van den Brink (TNO/KPN), chaired this session and presented his work plan in WD04. There were no contributioins to SpM-1 at this meeting

### *SpM-1.2 Contributions*

<none>

### *SpM-1.3 Status of Living List for Spectral Management part 1*

The living list was uploaded before the meeting as m06p09a02.pdf, and reviewed during the meeting. SP1-2 reached the agreed status. The table below summarizes the status of the Study Points for this Work item, at the end of the meeting.

| SP | Title | Owner | Status |
|---|---|---|---|
| 1-1 | Descriptions for “VDSL2-NL1” signals (over POTS) | Rob van den Brink (KPN/TNO) | Agreed |
| 1-2 | Descriptions for “VDSL2-NL2” signals (over ISDN) | Rob van den Brink (KPN/TNO) | Agreed |
| 1-3 | Descriptions for “VDSL2-UK1” signals | John MacDonald (BT) | US |
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| | | | |

### *SpM-1.4 Status of Draft deliverable for Spectral Management part 1*

A draft with agreed issues is still to be created.

# SpM-2 DTS/TM-06043 Spectral Management

***(revision of TR 101 830-2 Technical methods for performance evaluations)***

### *SpM-2.1 Work Plan*

The Rapporteur, Rob van den Brink, chaired this session and presented his work plan in WD04. There were no objections raised against this work plan.

<crosstalk models, SP2-4 and SP2-5>

- TD09 Swisscom/TNO Refinements in text proposal on crosstalk models
  *<transmitter models, SP2-6>*
- TD10 TNO/KPN Algorithmic model for VDSL2 transmitters

***SpM-2.3 Contributions***
**TD09** proposes several refinement in the text on crosstal models, resulted from a close cooperation on this between Swisscom and TNO. With these refinements, TM6 could agree on the final text.

In TD10, TNO/KPN presented a first but detailed elaboration on an algorithmic model for VDSL2 transmitters. The result is based on four independent building blocks (Band Constructor, Shaper, Notcher and Power Restictor), and a slightly different from the original idea (064t22) with five blocks. It is capable of modeling all combinations with limiting masks and profiles being defined in ITU G993.2. TD10 has elaborated it for all variants within bandplan 998, and has left those for bandplan 997 for further study. The same applies for the details on the "Shaper". TNO asked the floor to check the proposal, so that TM6 can reach provisionally agreement on it at the next meeting.
During the discussion, Swisscom confirmed that this proposal is indeed a solution in the right direction. Swisscom suggested to add some text to explain the origin of the various names being used in the predefined tables, such as "DS.1L.a", "DS.1X.b",'DS.2.r","DS.2.b", "US.0.p1" etc (NOTE: L=Legacy, X=extended, a="over POTS", b='over ISDN", r='regular, b="boosted'). In addition it was suggested to check the value of 5.1MHz in table 1, since it might be a value of band plan 997.

***SpM-2.4 Status of Living List for Spectral Management part 2***
The living list in m06p05a04.pdf was reviewed during the meeting. SP2-1 and SP2-2 were provisionally deleted due to the lack of contributions. SP2-4 and SP2-5 were agreed due to TD09. The table below summarizes the status of the Study Points for this Work item, at the end of the meeting.

| SP | Title | Owner | Status |
|---|---|---|---|
| 2-1 | Performance model for ADSL2 | Bernd Heise (Infineon) | Prov deleted |
| 2-2 | Performance model for ADSL2plus | Bernd Heise (Infineon) | Prov deleted |
| -3 | Modelling sidelobe pick-up in DMT Receivers | Olivier van de Wiel (Broadcom | Deleted (sept 2006) |
| 2-4 | Multi node crosstalk models, restricted to the case that all LT nodes are co-located, and NT distributed | Czech Telecom (Milan Meninger) | Agreed |
| 2-5 | Multi node crosstalk models, with both LT nodes and NT nodes distributed | Czech Telecom (Milan Meninger) | Agreed |
| 2-6 | Basic transmitter/disturber model for VDSL2 | Swisscom (Andreas Thöny) | US |
| 2-7 | Model for VDSL2 PSD template variations | Swisscom (Andreas Thöny) | US |
| 2-8 | Model for VDSL2 PSD shaping for remote deployment | Swisscom (Andreas Thöny) | US |

(**PA** - Provisionally Agreed; **PD** - Provisionally Deleted; **US** – Under Study.
The meeting number indicates the meeting at which the study item was created or the status last changed or confirmed.)

***SpM-2.5 Status of Draft Deliverable***
A first draft with the new revisions is still to be created .

Working group approval was originally scheduled for this meeting, but it was decided to postpone it by 3 meetings (for the nov 2007 meeting), to enable agreements on cross talk modeling and the VDSL2 transmitter model.

# SpM-3 Liasons

No liaisons were demanded during this meeting.